

Amendments to the Specification

Please replace the specification originally submitted for this patent application with the substitute specification which is enclosed with this Reply.

Please replace the abstract with the following amended paragraph:

A ~~The invention concerns a method of producing a~~
mechanical part useful in various fields of application including
plastic and metal processing is produced using ~~on the basis of a~~
computer-aided design process including a ~~of the type comprising:~~

[[- a]] ~~preliminary step of breaking~~ break-down of the
body of the part into elementary ~~strata,~~

[[- a]] strata, followed by manufacture [[step]] of
~~manufacturing~~ the elementary ~~strata,~~

[[- a]] strata, and reconstruction [[step]] of
~~reconstructing~~ the part,

~~characterized in that:~~

[[- the]] part. During break-down procedure
~~incorporates, during the breaking down~~ of the
part, ~~the breaking down of~~ at least one fluid
transport circuit, which is designed and modeled
beforehand, is broken down into elementary

chambers (20) in accordance with the ~~according~~
~~to a break-down associated with that of the part,~~
[[- said]] part. The elementary chambers are produced
in the elementary strata (7,) forming [[of]] the
part during manufacture ~~the step of manufacturing~~
the ~~strata, and~~
[[- the]] strata, and the fluid transport circuit is
reconstructed ~~in its entirety~~ during [[the]]
superposition and assembly of the strata.

~~The invention concerns the mechanical parts produced by
said method and for numerous fields of application, for example,
but not exclusively, plastic and metal processing.~~

~~Figure for the Abstract: figure 3a~~